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April 12, 2005
Job No. 3046.01

Mr. John Scarbrough
104 Franklin Street
Fortuna, California 95540

Subject: **1st Quarter 2005 Monitoring Report**
Ferndale Motors, 638 Main Street, Ferndale, California
LOP No. 12343

Dear Mr. Scarbrough:

This report presents the result of the 1st Quarter 2005 groundwater monitoring and sampling event conducted at the subject site. The site is approximately located as shown on the attached Site Location Map, Plate 1. The work was performed in accordance with directives from the Humboldt County Department of Health and Human Services Division of Environmental Health.

Monitoring Well Sampling

On March 15, 2005, groundwater samples were collected from monitoring wells (wells) MW-1 through MW-6 and piezometer PZ-1. The approximate well locations and general site features are shown on the attached Site Plan/Groundwater Elevation Contour Map, Plate 2. Prior to sampling, static water levels were measured and each well was checked for the presence of free product using an oil/water interface probe. No free product was reported during this sampling event. To produce representative samples prior to sampling, the wells were then purged of approximately three well casing volumes using a submersible pump. In addition, indicator parameters including the temperature, pH, and conductivity were measured during purging and recorded on the attached Groundwater Field Sampling Forms, Appendix A. The groundwater level in each well was allowed to recover to approximately 90% of its original static level prior to sample collection. Groundwater samples were collected using a separate disposable bailer for each well and transferred to the appropriate containers supplied by the laboratory. The groundwater samples were labeled, stored under refrigerated conditions and then transported under Chain-of-Custody documentation to Alpha Analytical Laboratories (Alpha) of Ukiah, California for chemical analysis. Groundwater removed during purging was stored onsite in 55-gallon DOT drums, pending disposal.

Water Level Measurements

Monitoring well top-of-casing (TOC) elevations, depths to groundwater, calculated water level elevations, and the calculated groundwater flow direction and gradient data for March 15, 2005 are presented in Table 1. Elevations are expressed in feet relative to mean sea level (msl), depths are expressed in feet and gradients are expressed in feet per foot. Historical groundwater flow direction and gradient data are attached in Appendix B.

Table 1: Groundwater Flow Direction and Gradient

Sample Date	Monitoring Well ID	Top-of-Casing Elevations (feet - msl)	Water Level Depth (feet)	Calculated Water Level Elevation (feet - msl)	Groundwater Flow Direction/Gradient (i)
03/15/05	MW-1	47.69	7.36	40.33	Variable i = varies
	MW-2	49.16	8.10	41.06	
	MW-3	47.90	8.64	39.26	
	MW-4	46.79	7.84	38.95	
	MW-5	48.14	6.75	41.39	
	MW-6	48.97	6.36	42.61	
	PZ-1	48.86	8.82	40.04	

Groundwater elevation contours based on MW-1 through MW-6, and PZ-1 for the March 15, 2005 monitoring event are shown on Plate 2. It appears that groundwater flows southerly towards MW-3 from Main Street and northerly towards MW-3 from the subject site which forms a trough - like feature.

Laboratory Analytical Results

Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and TPH as diesel (d) using EPA Test Methods 8260/8015, respectively. The volatile organic compounds; benzene, toluene, ethyl benzene and xylene (BTEX), the additional oxygenated fuel additives including methyl tert-butyl ether (MtBE), and lead scavengers were analyzed using EPA Test Method 8260B. The samples were analyzed by Alpha which is a state-certified laboratory for the analysis requested. The laboratory analytical results for the March 15, 2005 event are presented on page 3, Table 2. The results for TPH-g, TPH-d, BTEX, and MtBE are expressed in micrograms per liter (µg/L). The laboratory report and Chain-of-Custody documentation are attached in Appendix C. Historical groundwater sample results are presented in Appendix D.

Table 2: Groundwater Analytical Results

Sample Date	Monitoring Well ID	TPH-g	TPH-d	B	T	E	X	MtBE
		µg/L						
03/15/05	MW-1	**4,100**	**780***	**43**	**11**	**15**	**7.1**	<2.5
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**0.71**
	MW-3**	**2,200**	**460***	**270**	<6.0	<10	<10	<10
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	<0.50

< = Less than the indicates laboratory test method detection limit.
* = Results in the diesel organics range are primarily due to overlap from a gasoline range product.
** = Reporting Limits have been raised due to sample foaming.

Discussion

TPH-g was detected in groundwater samples collected from MW-1 and MW-3 at concentrations of 4,100 and 2,200 µg/L, respectively. TPH-d was detected in groundwater samples collected from MW-1 and MW-3 at concentrations of 780 and 460 µg/L, respectively. However, the laboratory noted that these results were primarily due to overlap from a gasoline range product. BTEX constituents were also detected in groundwater samples collected from wells MW-1 and MW-3 with benzene occurring at a maximum concentration of 460 µg/L. MtBE was detected in the groundwater sample collected from MW-2 at a concentration of 0.71 µg/L. Samples collected from wells MW-4 through MW-6, and PZ-1 were below laboratory test method detection limits for all the constituents analyzed.

The recent analytical results for wells MW-1 through MW-3 are generally consistent with historical concentrations of petroleum hydrocarbons and indicate that onsite impact remains greatest in the vicinity of MW-1 and MW-3. Time Vs. Concentration Graphs have been prepared for wells MW-1 and MW-3 and are attached in Appendix E.

The site is currently on a semi-annual sampling schedule. The next monitoring and sampling event is scheduled for September 2005. We are currently preparing a Remedial Action Plan to address residual impact at the site.

We appreciate the opportunity to be of service to you and trust this provides the information you require at this time. If you have any questions, do not hesitate to contact us at (707) 575-8622 or www.transtechconsultants.com.

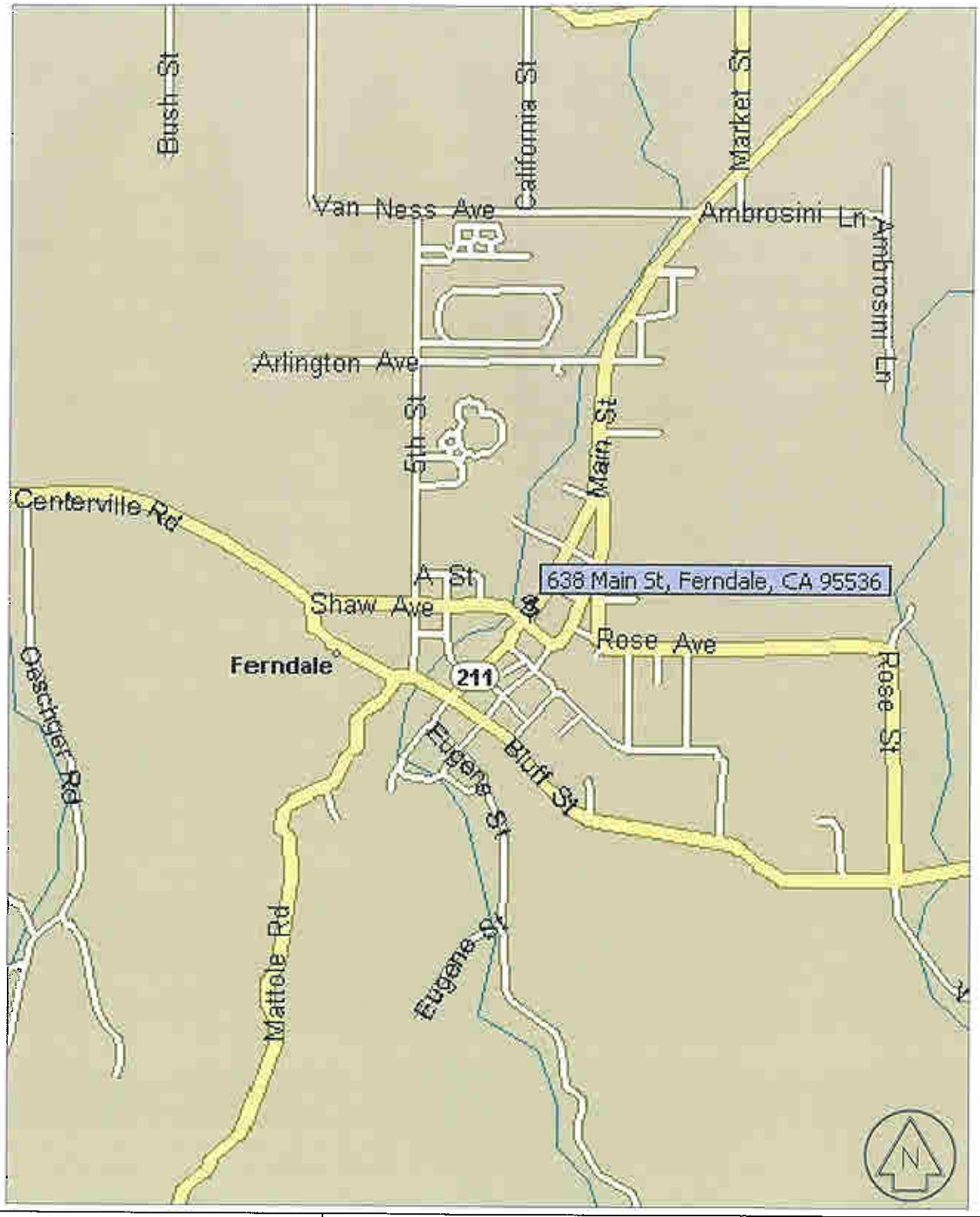
Sincerely,
TRANS TECH CONSULTANTS

Brian R. Hasik
Staff Geologist

Lee S. Hurvitz, PG 7573
Senior Geologist

QMR_3046_01_041205

Attachments: Plate 1, Site Location Map
Plate 2, Site Plan / Groundwater Elevation Contour Map
Appendix A, Groundwater Field Sampling Forms
Appendix B, Historical Groundwater Flow Direction and Gradient Data
Appendix C, Alpha Analytical Laboratory Report dated March 30, 2005
Appendix D, Historical Groundwater Analytical Results
Appendix E, Time vs. Concentration Graphs, MW-1 and MW-3
Distribution List



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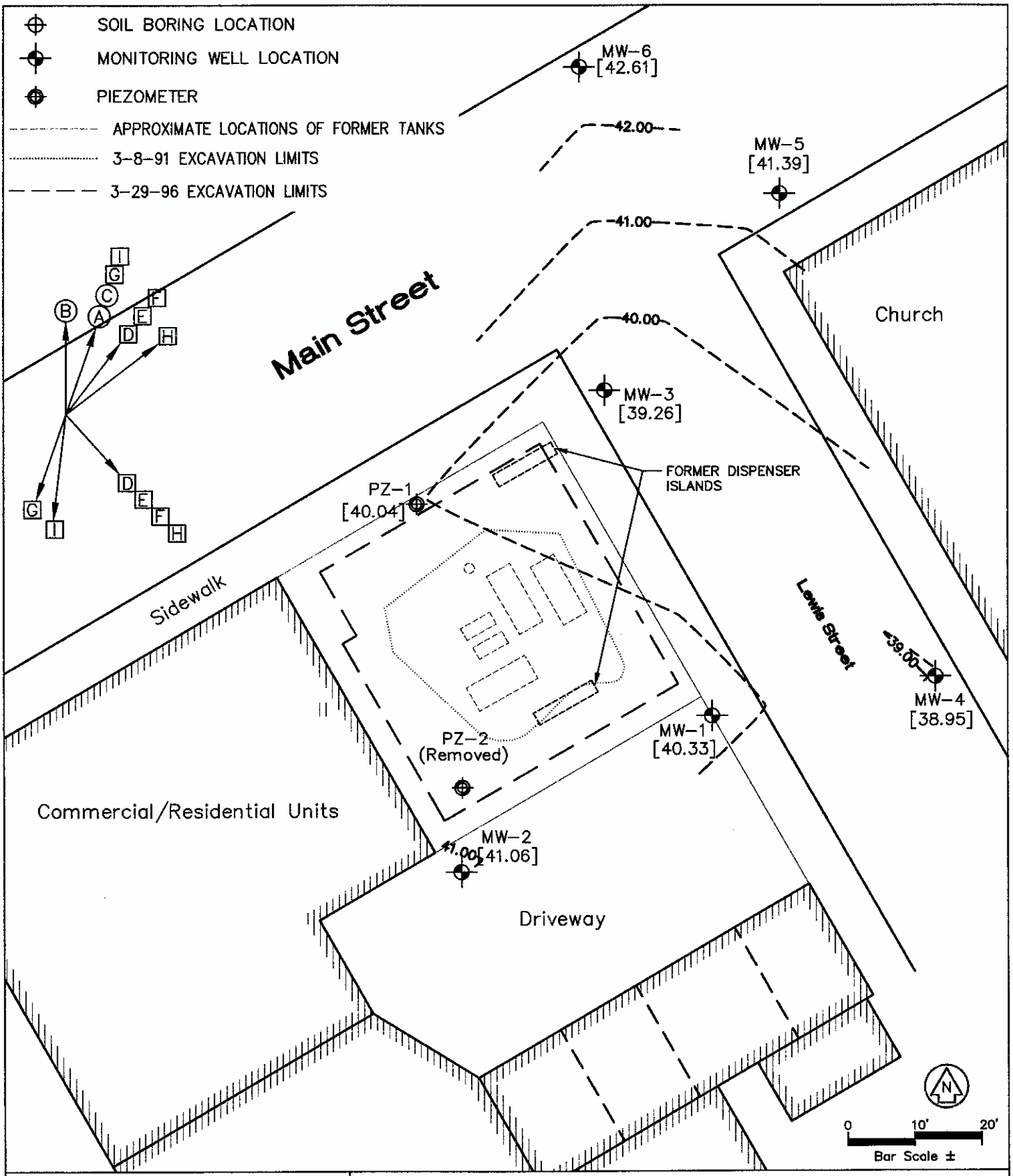
SITE LOCATION MAP

FERNDALE MOTORS
638 MAIN STREET
FERNDALE, CALIFORNIA

PLATE: 1

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	3046.01 SLM	LSH	3046.01	A-246		9/22/03



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SITE PLAN / GROUND WATER ELEVATION CONTOUR MAP FOR 3/15/05

FERNDALE MOTORS
638 MAIN STREET
FERNDALE, CALIFORNIA

PLATE: 2

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
JLP	3046.01 GWFP	BRH	3046.01	A-634		4/13/05

GROUNDWATER FLOW LEGEND

Gradient Contour (Interval = 0.5 ft)

Identifier Tag	Date	Est. Flow Direction	Gradient Slope
(A)	1/14/02	N20°E	i = 0.01
(B)	4/22/02	NORTH	i = 0.03
(C)	7/23/02	N20°E	i = 0.01
[D]	12/2/02	EASTERLY	i = 0.03
[E]	3/26/03	EASTERLY	i = 0.1
[F]	9/10/03	EASTERLY	i = 0.02
[G]	3/3/04	VARIABLE	i = VARIES
[H]	7/2/04	VARIABLE	i = VARIES
[I]	3/15/05	VARIABLE	i = VARIES

Identifier Tag	Date	Est. Flow Direction	Gradient Slope

MW-1 [XX.XX] Monitoring Well Location Groundwater Elevation

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).

..... Excavation Limits, 3/8/91

— — Excavation Limits, 3/29/96

Estimated Groundwater Flow Direction → (X)

Estimated Groundwater Variable Flow Direction → [X]

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SITE PLAN / GROUND WATER ELEVATION CONTOUR MAP FOR 3/15/05

FERNDALE MOTORS
638 MAIN STREET
FERNDALE, CALIFORNIA

PLATE: 2

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
JLP	3046.01 GWFP	BRH	3046.01	A-634		4/13/05

APPENDIX A

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3046.01 Ferndale Motors		**Well Number:** MW-1
Project Location: 638 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 15.00 **Well Depth from TOC (AP):**
Date: March 15, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik BH	**Product Thickness in inches:** 0	
	Water Level from TOC: 7.36	**Time:** 2:00
Notes: HC odor	**Water Level pre-purge:** 7.36	**Time:** 3:03
	Well Type: ☑ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(TD - WL) X ( )2 X 0.0408 = 1.22 gallons in one well volume
Dia. Inches

3.67 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
3:04	1	6.39	15.5	-78		720.9	L
3:04	2	6.37	15.2	-84		716.2	L
3:05	3	6.39	15.2	-91		713.9	L
3:06	4	6.39	15.3	-94		478.3	L
3:06	5	6.37	15.5	-96		734.1	L
		going dry		near	5		

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 7.65 **Time:** 4:20

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 3 **Soil:** 0 **Other:** 0

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3046.01 Ferndale Motors		**Well Number:** MW-2
Project Location: 638 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 14.80 **Well Depth from TOC (AP):** NA
Date: March 15, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik BCH	**Product Thickness in inches:** 8	
	Water Level from TOC: 8.10	**Time:** 1:55
Notes:	**Water Level pre-purge:** 8.10	**Time:** 2:26
	Well Type: ☐ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.07 gallons in one well volume
TD WL Dia. Inches

3.22 gallons in 3 well volumes (Approx. 0.6 gal/ft) 4 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
2:27	1	6.68	14.7	201	8	349.1	L
2:27	2	6.65	14.4	207		355.1	L
2:28	3	6.65	14.4	211		376.3	L
2:29	4	6.65	14.6	214		372.1	L
			Avg	@ 4g			

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 8.16 **Time:** 3:40

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 3 **Soil:** 0 **Other:** 0

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3046.01 Ferndale Motors		**Well Number:** MW-3
Project Location: 638 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 15.00 **Well Depth from TOC (AP):**
Date: March 15, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik BH	**Product Thickness in inches:** 0	
	Water Level from TOC: 8.65	**Time:** 1:59
Notes: HC 0007	**Water Level pre-purge:** 8.64	**Time:** 2.54
	Well Type: ☒ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.02 gallons in one well volume
TD WL Dia. Inches

3.05 gallons in 3 well volumes (Approx. 0.6 gal/ft) 3.5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
2:56	1	6.23	15.8	-44		991.7	L
2:57	2	6.33	15.7	-74		984.4	L
2:58	3	6.34	15.8	-85		1005	L
2:58	3.5	6.35	15.9	-81		989.6	L
			Avg P	3.5			

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 8.85 **Time:** 4:10

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 3 **Soil:** 0 **Other:** 0

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3046.01 Ferndale Motors		**Well Number:** MW-4
Project Location: 638 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 15.00 **Well Depth from TOC (AP):** NA
Date: March 15, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik BH	**Product Thickness in inches:**	
	Water Level from TOC: 7.82	**Time:** 1:54
Notes:	**Water Level pre-purge:** 7.89	**Time:** 2:17
	Well Type: ☑ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / (No) **Rain:** Yes / (No)	**Clouds:** Yes / (No) **Fog:** Yes / (No)	**Sun:** (Yes) / No	**Precipitation in last 5 days:** Yes / (No)

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(____ - ____) X (____)2 X 0.0408 = 1.15 gallons in one well volume
TD WL Dia. Inches

3.44 gallons in 3 well volumes (Approx. 0.6 gal/ft) 4.5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
2:20	1	6.77	14.8	150		214.0	L
2:21	2	6.75	14.6	137		212.1	L
2:21	3	6.78	14.6	135		206.9	L
2:22	4	6.80	14.7	142		207.5	L
2:23	4.5	6.77	14.8	156		210.5	L
		tay?	4.5				

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 7.90 **Time:** 3:30

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 3 **Soil:** 0 **Other:** 0

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3046.01 Ferndale Motors		**Well Number:** MW-5
Project Location: 638 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 14.90 **Well Depth from TOC (AP):**
Date: March 15, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** 0	
	Water Level from TOC: 6.74	**Time:** 1:58
Notes:	**Water Level pre-purge:** 6.75	**Time:** 2:43
	Well Type: ☑ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.30 gallons in one well volume
TD WL Dia. Inches

3.91 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
2:44	1	6.39	15.5	229		221.9	L
2:45	2	6.30	15.2	234		222.6	L
2:45	3	6.30	15.2	235		222.2	L
2:46	4	6.30	15.2	236		219.4	L
2:47	5	6.31	15.3	235		220.1	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 7.02 **Time:** 4:00

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 3 **Soil:** 0 **Other:** 0

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3046.01 Ferndale Motors		**Well Number:** MW-6
Project Location: 638 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 14.90 **Well Depth from TOC (AP):** NA
Date: March 15, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** 0	
	Water Level from TOC: 6.36	**Time:** 150
Notes:	**Water Level pre-purge:** 6.36	**Time:** 2:07
	Well Type: ☒ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.37 gallons in one well volume
TD WL Dia. Inches

4.10 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
2:10	1	6.40	14.4	176		233.7	L
2:10	2	6.38	13.8	201		235.8	L
2:11	3	6.37	13.8	210		232.5	L
2:12	4	6.37	14.0	216		233.9	L
2:12	5	6.35	14.0	221		237.1	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 6.52 **Time:** 3:20

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 3 **Soil:** 0 **Other:** 0

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3046.01 Ferndale Motors

Well Number: PZ-1

Project Location: 638 Main Street Ferndale, California

Casing Diameter: 2"

Well Depth from TOC (BP): 15.10
Well Depth from TOC (AP): NA

Date: March 15, 2005

Top of Screen: **Initial Well Depth:**

Sampled by (print and sign): Brian Hasik (BH)

Product Thickness in inches: 0

Water Level from TOC: 8.83 **Time:** 1:57

Notes:

Water Level pre-purge: 8.82 **Time:** 2:34

Well Type: ☑ Monitor ☐ Extraction ☐ Other:

Well EL (TOC): **Well Mat:** PVC

WEATHER

Wind: Yes / No **Clouds:** Yes / No **Sun:** Yes / No **Precipitation in last 5 days:** Yes / No

Rain: Yes / No **Fog:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(____ - ____) X (____)2 X 0.0408 = 1.00 gallons in one well volume
TD WL Dia. Inches

3.00 gallons in 3 well volumes (Approx. 0.6 gal/ft) 4 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
2:35	1	6.33	15.0	218		514.2	L
2:36	2	6.30	14.6	216		514.7	L
2:36	3	6.30	14.7	214		518.5	L
2:37	4	6.27	14.9	212		519.6	L
			dry @ ≈4 g				

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 8.98 **Time:** 3:50

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 3 **Soil:** 0 **Other:** 0

APPENDIX B

Appendix B - Historical Groundwater Flow Direction and Gradient Data

Date	Monitoring Well	Top-of-Casing Elevations	Measured Water Level Depths	Calculated Water Level Elevations	Ground-Water Flow Direction/Gradient (i)
07/8/98	MW-1	47.69	7.45	40.24	North i = 0.020
	MW-2	49.16	8.46	40.70	
	MW-3	47.90	8.60	39.30	
12/30/99	MW-1	47.69	7.53	40.16	N 22°E i = 0.022
	MW-2	49.16	8.21	40.95	
	MW-3	47.90	8.57	39.33	
03/28/00	MW-1	47.69	7.10	40.59	N 2°W i = 0.027
	MW-2	49.16	8.00	41.16	
	MW-3	47.90	8.60	39.30	
09/07/00	MW-1	47.69	8.20	39.49	S 77°E i = 0.010
	MW-2	49.16	9.35	39.81	
	MW-3	47.90	8.16	39.74	
11/15/00	MW-1	47.69	7.26	40.43	N37°E i = 0.026
	MW-2	49.16	7.66	41.50	
	MW-3	47.90	8.21	39.69	
03/28/01	MW-1	47.69	7.00	40.69	North i = 0.03
	MW-2	49.16	7.80	41.36	
	MW-3	47.90	8.57	39.33	
07/26/01	MW-1	47.69	8.10	39.59	N23°E i = 0.02
	MW-2	49.16	9.04	40.12	
	MW-3	47.90	8.82	39.08	
10/16/01	MW-1	47.69	8.38	39.31	N20°E i = 0.01
	MW-2	49.16	9.46	39.70	
	MW-3	47.90	8.87	39.03	

Appendix B Continued

Date	Monitoring Well	Top-of-Casing Elevations	Measured Water Level Depths	Calculated Water Level Elevations	Ground-Water Flow Direction/Gradient (i)
01/14/02	MW-1	47.69	6.87	40.82	N 20°E i = 0.03
	MW-2	49.16	7.16	42.00	
	MW-3	47.90	8.39	39.51	
04/22/02	MW-1	47.69	7.11	40.58	North i = 0.03
	MW-2	49.16	7.93	41.23	
	MW-3	47.90	8.59	39.31	
07/23/02	MW-1	47.69	8.10	39.59	N 20°E i = 0.01
	MW-2	49.16	9.12	40.04	
	MW-3	47.90	8.82	39.08	
12/04/02	MW-1	47.69	8.12	39.57	Easterly i = 0.03
	MW-2	49.16	8.95	40.21	
	MW-3	47.90	8.86	39.04	
	MW-4	46.79	7.92	38.87	
	MW-5	48.14	8.56	39.58	
	MW-6	48.97	9.04	39.93	

Appendix B - Continued

Sample Date	Monitoring Well ID	Top-of-Casing Elevations (feet - msl)	Measured Water Level Depths (feet)	Calculated Water Level Elevations (feet - msl)	Groundwater Flow Direction/Gradient (i)
03/26/03	MW-1	47.69	6.44	41.25	Easterly i = 0.10
	MW-2	49.16	6.25	42.91	
	MW-3	47.90	8.19	39.71	
	MW-4	46.79	6.78	40.01	
	MW-5	48.14	4.54	43.60	
	MW-6	48.97	3.81	45.16	
09/10/03	MW-1	47.69	8.43	39.26	Easterly i = 0.02
	MW-2	49.16	9.26	39.90	
	MW-3	47.90	8.83	39.07	
	MW-4	46.79	7.99	38.80	
	MW-5	48.14	8.37	39.77	
	MW-6	48.97	8.91	40.06	
3/03/04	MW-1	47.69	6.60	41.09	Variable i = varies
	MW-2	49.16	6.74	42.42	
	MW-3	47.90	8.18	39.72	
	MW-4	46.79	7.50	39.29	
	MW-5	48.14	5.45	42.69	
	MW-6	48.97	5.68	43.29	

Appendix B - Continued

Sample Date	Monitoring Well ID	Top-of-Casing Elevations (feet - msl)	Water Level Depth (feet)	Calculated Water Level Elevation (feet - msl)	Groundwater Flow Direction/Gradient (i)
7/02/04	MW-1	47.69	8.05	39.64	Variable i = varies
	MW-2	49.16	9.05	40.11	
	MW-3	47.90	8.80	39.11	
	MW-4	46.79	8.01	38.78	
	MW-5	48.14	8.11	40.03	
	MW-6	48.97	8.54	40.43	
03/15/05	MW-1	47.69	7.36	40.33	Variable i = varies
	MW-2	49.16	8.10	41.06	
	MW-3	47.90	8.64	39.26	
	MW-4	46.79	7.84	38.95	
	MW-5	48.14	6.75	41.39	
	MW-6	48.97	6.36	42.61	
	PZ-1	48.86	8.82	40.04	

APPENDIX C

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

3046.01

30 March 2005

Trans Tech Consultants
Attn: Bill Wiggins
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
RE: Ferndale Motors
Work Order: A503566

Enclosed are the results of analyses for samples received by the laboratory on 03/17/05 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri Speaks

Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A503566-01	Water	03/15/05 16:20	03/17/05 15:10
MW-2	A503566-02	Water	03/15/05 15:40	03/17/05 15:10
MW-3	A503566-03	Water	03/15/05 16:10	03/17/05 15:10
MW-4	A503566-04	Water	03/15/05 15:30	03/17/05 15:10
MW-5	A503566-05	Water	03/15/05 16:00	03/17/05 15:10
MW-6	A503566-06	Water	03/15/05 15:20	03/17/05 15:10
PZ-1	A503566-07	Water	03/15/05 15:50	03/17/05 15:10

Sheri Speaks

Sheri L. Speaks
Project Manager

3/30/2005

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-1 (A503566-01)			**Sample Type: Water**			**Sampled: 03/15/05 16:20**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC52517	03/25/05	03/25/05	1	**780 ug/l**		**50**	D-08
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/26/05	50	**4100** "		**2500**	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC52517*	*03/25/05*	*03/25/05*		*80.0 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52801*	*03/25/05*	*03/26/05*		*97.6 %*	*70-129*		
Volatile Organic Compounds by EPA Method 8260B									**R-06**
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	5	**43 ug/l**		**1.5**	
Toluene	"	"	"	"	"	**11** "		**1.5**	
Ethylbenzene	"	"	"	"	"	**15** "		**2.5**	
Xylenes (total)	"	"	"	"	"	**7.1** "		**2.5**	
Methyl tert-butyl ether	"	"	"	"	"	ND "		2.5	
Di-isopropyl ether	"	"	"	"	"	ND "		2.5	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		2.5	
Tert-amyl methyl ether	"	"	"	"	"	ND "		2.5	
Tert-butyl alcohol	"	"	"	"	"	ND "		50	
1,2-Dichloroethane	"	"	"	"	"	ND "		2.5	
Chlorobenzene	"	"	"	"	"	ND "		2.5	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		2.5	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		2.5	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		2.5	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		2.5	
Surrogate: Bromofluorobenzene	"	"	"	"		*123 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*112 %*	*85-129*		
Surrogate: Toluene-d8	"	"	"	"		*126 %*	*74-137*		
MW-2 (A503566-02)			**Sample Type: Water**			**Sampled: 03/15/05 15:40**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC52517	03/25/05	03/25/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	"	ND "		50	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC52517*	*03/25/05*	*03/25/05*		*72.2 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52406*	*03/22/05*	*03/24/05*		*113 %*	*70-129*		

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Sheri Speaks

Sheri L. Speaks
Project Manager

3/30/2005

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-2 (A503566-02)			**Sample Type: Water**			**Sampled: 03/15/05 15:40**			
Volatile Organic Compounds by EPA Method 8260B									**R-06**
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	**0.71 "**		**0.50**	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*127 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*198 %*	*85-129*		*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*113 %*	*74-137*		
MW-3 (A503566-03)			**Sample Type: Water**			**Sampled: 03/15/05 16:10**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC52517	03/25/05	03/25/05	1	**460 ug/l**		**50**	D-08
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	20	**2200 "**		**1000**	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC52517*	*03/25/05*	*03/25/05*		*76.7 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52406*	*03/22/05*	*03/24/05*		*122 %*	*70-129*		

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Sheri Speaks

Sheri L. Speaks
Project Manager

3/30/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-3 (A503566-03)			**Sample Type: Water**			**Sampled: 03/15/05 16:10**			
Volatile Organic Compounds by EPA Method 8260B									**R-04**
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	20	**270 ug/l**		**6.0**	
Toluene	"	"	"	"	"	ND "		6.0	
Ethylbenzene	"	"	"	"	"	ND "		10	
Xylenes (total)	"	"	"	"	"	ND "		10	
Methyl tert-butyl ether	"	"	"	"	"	ND "		10	
Di-isopropyl ether	"	"	"	"	"	ND "		10	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		10	
Tert-amyl methyl ether	"	"	"	"	"	ND "		10	
Tert-butyl alcohol	"	"	"	"	"	ND "		200	
1,2-Dichloroethane	"	"	"	"	"	ND "		10	
Chlorobenzene	"	"	"	"	"	ND "		10	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		10	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		10	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		10	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		10	
Surrogate: Bromofluorobenzene	"	"	"	"		*124 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*124 %*	*85-129*		
Surrogate: Toluene-d8	"	"	"	"		*122 %*	*74-137*		
MW-4 (A503566-04)			**Sample Type: Water**			**Sampled: 03/15/05 15:30**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC52517	03/25/05	03/26/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	"	ND "		50	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC52517*	*03/25/05*	*03/26/05*		*76.3 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52406*	*03/22/05*	*03/24/05*		*121 %*	*70-129*		

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Sheri Speaks

Sheri L. Speaks
Project Manager

3/30/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-4 (A503566-04)			**Sample Type: Water**			**Sampled: 03/15/05 15:30**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*129 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*182 %*	*85-129*		*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*121 %*	*74-137*		
MW-5 (A503566-05)			**Sample Type: Water**			**Sampled: 03/15/05 16:00**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC52517	03/25/05	03/26/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	"	ND "		50	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC52517*	*03/25/05*	*03/26/05*		*79.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52406*	*03/22/05*	*03/24/05*		*117 %*	*70-129*		

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Sheri Speaks

Sheri L. Speaks
Project Manager

3/30/2005

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208 Mason St. Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-5 (A503566-05)			**Sample Type: Water**			**Sampled: 03/15/05 16:00**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*123 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*170 %*	*85-129*		*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*117 %*	*74-137*		
MW-6 (A503566-06)			**Sample Type: Water**			**Sampled: 03/15/05 15:20**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	"	ND "		50	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC52822*	*03/28/05*	*03/28/05*		*83.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52406*	*03/22/05*	*03/24/05*		*126 %*	*70-129*		

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Sheri Speaks

Sheri L. Speaks
Project Manager

3/30/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-6 (A503566-06)			**Sample Type: Water**			**Sampled: 03/15/05 15:20**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*117 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*168 %*	*85-129*		*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*126 %*	*74-137*		
PZ-1 (A503566-07)			**Sample Type: Water**			**Sampled: 03/15/05 15:50**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC52822	03/28/05	03/28/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52406	03/22/05	03/24/05	"	ND "		50	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC52822*	*03/28/05*	*03/28/05*		*83.9 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52406*	*03/22/05*	*03/24/05*		*115 %*	*70-129*		

Sheri Speaks

Sheri L. Speaks
Project Manager

3/30/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/30/05 11:47
Project No: 3046.01
Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
PZ-1 (A503566-07)			**Sample Type: Water**			**Sampled: 03/15/05 15:50**		
Volatile Organic Compounds by EPA Method 8260B								
Benzene	EPA 8260B	AC52516	03/22/05	03/24/05	1	ND ug/l	0.30	
Toluene	"	"	"	"	"	ND "	0.30	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Di-isopropyl ether	"	"	"	"	"	ND "	0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "	10	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*120 %*	*45-147*	
Surrogate: Dibromofluoromethane	"	"	"	"		*183 %*	*85-129*	*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*115 %*	*74-137*	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52406 - EPA 5030 Water GCMS										
Blank (AC52406-BLK1)				Prepared: 03/22/05 Analyzed: 03/23/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*29.9*		"	*25.0*		*120*	*70-129*			
LCS (AC52406-BS1)				Prepared: 03/22/05 Analyzed: 03/24/05						
TPH as Gasoline	171	50	ug/l	200		85.5	65-137			
Surrogate: Toluene-d8	*30.6*		"	*25.0*		*122*	*70-129*			
LCS Dup (AC52406-BSD1)				Prepared: 03/22/05 Analyzed: 03/24/05						
TPH as Gasoline	173	50	ug/l	200		86.5	65-137	1.16	20	
Surrogate: Toluene-d8	*31.4*		"	*25.0*		*126*	*70-129*			
Matrix Spike (AC52406-MS1)	**Source: A503548-02**			Prepared: 03/22/05 Analyzed: 03/24/05						
TPH as Gasoline	201	50	ug/l	200	ND	90.5	65-137			
Surrogate: Toluene-d8	*29.0*		"	*25.0*		*116*	*70-129*			
Batch AC52517 - EPA 3510B Water										
Blank (AC52517-BLK1)				Prepared & Analyzed: 03/25/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	*418*		"	*579*		*72.2*	*20-152*			
LCS (AC52517-BS1)				Prepared & Analyzed: 03/25/05						
TPH as Diesel	1920	50	ug/l	1960		98.0	52-136			
Surrogate: 1,4-Bromofluorobenzene	*428*		"	*579*		*73.9*	*20-152*			
LCS Dup (AC52517-BSD1)				Prepared & Analyzed: 03/25/05						
TPH as Diesel	2010	50	ug/l	1960		103	52-136	4.38	25	

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Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52517 - EPA 3510B Water										
LCS Dup (AC52517-BSD1)				Prepared & Analyzed: 03/25/05						
Surrogate: 1,4-Bromofluorobenzene	*447*		"	*579*		*77.2*	*20-152*			
Batch AC52801 - EPA 5030 Water GCMS										
Blank (AC52801-BLK1)				Prepared & Analyzed: 03/25/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*31.1*		"	*25.0*		*124*	*70-129*			
LCS (AC52801-BS1)				Prepared & Analyzed: 03/25/05						
TPH as Gasoline	190	50	ug/l	200		95.0	65-137			
Surrogate: Toluene-d8	*24.8*		"	*25.0*		*99.2*	*70-129*			
LCS Dup (AC52801-BSD1)				Prepared & Analyzed: 03/25/05						
TPH as Gasoline	176	50	ug/l	200		88.0	65-137	7.65	20	
Surrogate: Toluene-d8	*24.8*		"	*25.0*		*99.2*	*70-129*			
Matrix Spike (AC52801-MS1)	**Source: A503567-01**			Prepared & Analyzed: 03/25/05						
TPH as Gasoline	293	50	ug/l	200	ND	138	65-137			QM-05
Surrogate: Toluene-d8	*24.7*		"	*25.0*		*98.8*	*70-129*			
Batch AC52822 - EPA 3510B Water										
Blank (AC52822-BLK1)				Prepared & Analyzed: 03/28/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	*444*		"	*579*		*76.7*	*20-152*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52822 - EPA 3510B Water										
LCS (AC52822-BS1)				Prepared & Analyzed: 03/28/05						
TPH as Diesel	2150	50	ug/l	1960		110	52-136			
Surrogate: 1,4-Bromofluorobenzene	*520*		"	*579*		*89.8*	*20-152*			
LCS Dup (AC52822-BSD1)				Prepared & Analyzed: 03/28/05						
TPH as Diesel	2120	50	ug/l	1960		108	52-136	1.41	25	
Surrogate: 1,4-Bromofluorobenzene	*496*		"	*579*		*85.7*	*20-152*			

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Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52516 - EPA 5030 Water GCMS										
Blank (AC52516-BLK1)				Prepared: 03/22/05 Analyzed: 03/23/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	*31.8*		"	*25.0*		*127*	*45-147*			
Surrogate: Dibromofluoromethane	*35.3*		"	*25.0*		*141*	*85-129*			S-GC
Surrogate: Toluene-d8	*29.9*		"	*25.0*		*120*	*74-137*			
LCS (AC52516-BS1)				Prepared: 03/22/05 Analyzed: 03/23/05						
Benzene	5.24	0.30	ug/l	5.00		105	79-116			
Toluene	5.85	0.30	"	5.00		117	83-120			
Ethylbenzene	4.37	0.50	"	5.00		87.4	81-119			
Xylenes (total)	12.7	0.50	"	15.0		84.7	79-121			
Methyl tert-butyl ether	5.38	0.50	"	5.00		108	73-127			
Di-isopropyl ether	6.04	0.50	"	5.07		119	69-96			QL-03
Ethyl tert-butyl ether	6.25	0.50	"	5.08		123	76-117			QL-03

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Project ID: Ferndale Motors

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52516 - EPA 5030 Water GCMS										
LCS (AC52516-BS1)				Prepared: 03/22/05 Analyzed: 03/23/05						
Tert-amyl methyl ether	6.36	0.50	"	5.16		123	80-122			QL-03
Tert-butyl alcohol	79.7	10	"	98.2		81.2	53-132			
1,2-Dichloroethane	5.74	0.50	"	5.00		115	78-115			
Chlorobenzene	4.94	0.50	"	5.00		98.8	82-112			
1,3-Dichlorobenzene	4.39	0.50	"	5.00		87.8	82-117			
1,4-Dichlorobenzene	5.02	0.50	"	5.00		100	85-113			
1,2-Dichlorobenzene	4.92	0.50	"	5.00		98.4	83-113			
1,2-Dibromoethane (EDB)	5.02	0.50	"	5.00		100	84-117			
Surrogate: Bromofluorobenzene	*33.2*		"	*25.0*		*133*	*45-147*			
Surrogate: Dibromofluoromethane	*32.6*		"	*25.0*		*130*	*85-129*			S-GC
Surrogate: Toluene-d8	*32.4*		"	*25.0*		*130*	*74-137*			
LCS Dup (AC52516-BSD1)				Prepared: 03/22/05 Analyzed: 03/23/05						
Benzene	5.47	0.30	ug/l	5.00		109	79-116	4.30	25	
Toluene	5.70	0.30	"	5.00		114	83-120	2.60	25	
Ethylbenzene	4.06	0.50	"	5.00		81.2	81-119	7.35	25	
Xylenes (total)	11.3	0.50	"	15.0		75.3	79-121	11.7	25	QL-03
Methyl tert-butyl ether	6.07	0.50	"	5.00		121	73-127	12.1	25	
Di-isopropyl ether	5.99	0.50	"	5.07		118	69-96	0.831	25	QL-03
Ethyl tert-butyl ether	6.27	0.50	"	5.08		123	76-117	0.319	25	QL-03
Tert-amyl methyl ether	6.45	0.50	"	5.16		125	80-122	1.41	25	QL-03
Tert-butyl alcohol	84.9	10	"	98.2		86.5	53-132	6.32	25	
1,2-Dichloroethane	5.82	0.50	"	5.00		116	78-115	1.38	25	QL-03
Chlorobenzene	4.85	0.50	"	5.00		97.0	82-112	1.84	25	
1,3-Dichlorobenzene	3.92	0.50	"	5.00		78.4	82-117	11.3	25	QL-03
1,4-Dichlorobenzene	4.74	0.50	"	5.00		94.8	85-113	5.74	25	
1,2-Dichlorobenzene	4.74	0.50	"	5.00		94.8	83-113	3.73	25	

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A503566	03/17/2005 15:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52516 - EPA 5030 Water GCMS										
LCS Dup (AC52516-BSD1)				Prepared: 03/22/05 Analyzed: 03/23/05						
1,2-Dibromoethane (EDB)	4.94	0.50	"	5.00		98.8	84-117	1.61	25	
Surrogate: Bromofluorobenzene	*29.9*		"	*25.0*		*120*	*45-147*			
Surrogate: Dibromofluoromethane	*30.7*		"	*25.0*		*123*	*85-129*			
Surrogate: Toluene-d8	*32.9*		"	*25.0*		*132*	*74-137*			
Matrix Spike (AC52516-MS1)	**Source: A503548-02**			Prepared: 03/22/05 Analyzed: 03/23/05						
Benzene	4.81	0.30	ug/l	5.00	ND	96.2	63-144			
Toluene	5.85	0.30	"	5.00	ND	117	65-145			
Ethylbenzene	4.39	0.50	"	5.00	ND	87.8	57-155			
Xylenes (total)	12.4	0.50	"	15.0	ND	82.7	59-149			
Methyl tert-butyl ether	5.14	0.50	"	5.00	ND	103	62-156			
Di-isopropyl ether	5.51	0.50	"	5.07	ND	109	58-115			
Ethyl tert-butyl ether	5.70	0.50	"	5.08	ND	112	57-147			
Tert-amyl methyl ether	5.46	0.50	"	5.16	ND	106	53-153			
Tert-butyl alcohol	81.0	10	"	98.2	ND	82.5	41-147			
1,2-Dichloroethane	5.22	0.50	"	5.00	ND	104	61-134			
Chlorobenzene	4.90	0.50	"	5.00	ND	98.0	62-139			
1,3-Dichlorobenzene	4.41	0.50	"	5.00	ND	88.2	59-140			
1,4-Dichlorobenzene	4.96	0.50	"	5.00	ND	99.2	62-136			
1,2-Dichlorobenzene	4.87	0.50	"	5.00	ND	97.4	62-137			
1,2-Dibromoethane (EDB)	4.97	0.50	"	5.00	ND	99.4	58-140			
Surrogate: Bromofluorobenzene	*32.3*		"	*25.0*		*129*	*45-147*			
Surrogate: Dibromofluoromethane	*32.0*		"	*25.0*		*128*	*85-129*			
Surrogate: Toluene-d8	*32.0*		"	*25.0*		*128*	*74-137*			

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503566	03/17/2005 15:10	TRANSTEC	

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
R-06	The Reporting Limits for this analysis have been raised to account for matrix interference.
R-04	The Reporting Limits for this analysis are elevated due to sample foaming.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QL-03	Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
D-08	Results in the diesel organics range are primarily due to overlap from a gasoline range product.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

WORK ORDER
CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 208 Mason Street, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 3/15/05 PAGE 1 OF 1

CLIENT'S NAME: John Scarborough	PROJECT MANAGER: Bill Wiggins
STREET ADDRESS / CITY / STATE / ZIP	PHONE NUMBER
PROJECT NAME: Ferndale Motors	FAX NUMBER
CONTRACT/PURCHASE ORDER/QUOTE NUMBER: 3046-01	SITE CONTACT
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM: B. H.	SAMPLED BY: Brian Hasik

ANALYSES: TPH-GAS; TPH-D, Diesel; BTEX + 5OXY + Pb 5OXY

SAMPLE CONDITION ON RECEIPT:
COLD/ICED? 7.2
BUBBLES OR AIR SPACE?
WERE SAMPLES PRESERVED?

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE: LIQ	AIR	SOLID	COMP	GRAB	NO. OF CONTS.	TPH-GAS	TPH-D	BTEX + 5OXY + Pb 5OXY	EXPLAIN IRREGULARITIES BELOW
MW-1	3/15/05	4:20	A5035660-1	X				X	5	X	X	X	
MW-2		3:40	2	X				X	5	X	X	X	
MW-3		4:10	3	X				X	5	X	X	X	
MW-4		3:30	4	X				X	5	X	X	X	
MW-5		4:00	5	X				X	5	X	X	X	
MW-6		3:20	6	X				X	5	X	X	X	
PZ-1		3:50	7	X				X	5	X	X	X	
													Geotracker T0602300262

RELINQUISHED BY: (SIGNATURE) B. H.	RECEIVED BY: (SIGNATURE)	DATE 3/17/05	TIME 1320
RELINQUISHED BY: (SIGNATURE) 1510	RECEIVED BY: (SIGNATURE)	DATE 3/17/05	TIME 1510
RELINQUISHED BY: (SIGNATURE)	RECEIVED FOR LABORATORY BY:		
METHOD OF SHIPMENT	AUTHORIZED BY:		

TURN AROUND TIME REQUESTED: Standard

SAMPLE CONTROL OFFICER

SPECIAL INSTRUCTIONS

DRIVING TIME	SITE TIME	TOTAL TIME

SAMPLE DESPOSITION:
1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES: THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.)
2. SAMPLE TO BE RETURNED TO CLIENT? ☐ YES ☐ NO

HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE.

APPENDIX D

Appendix D - Historical Groundwater Analytical Results

Sample Date	Monitoring Well	TPH as Gas	TPH as Diesel	B	T	E	X	Chlorinated Solvents	MtBE + Oxygenates	Metals: Cd, Cr, Pb, Ni, & Zn
		µg/L								
07/08/98	MW-1	**2,600**	ND	**36**	**3.1**	ND	**3.0**	**(see Note 1)**	ND	NA
	MW-2	ND	ND	ND	ND	ND	ND	ND	ND	NA
	MW-3	**250**	ND	**25**	**1.9**	ND	ND	**(see Note 2)**	**(see Note 3)**	ND

ND = Not Detected

Note 1 = The following compounds were detected above the laboratory reporting limits in this sample:

benzene	27.0
n-propyl benzene	18.0
1,3,5-trimethylbenzene	5.5
1,2,4-trimethylbenzene	9.3
naphthalene	13.0

NA = Not Analyzed for during this sampling event

Note 2 = The following compounds were detected above the laboratory reporting limits in this sample:

1.2-dichloroethane	21.9
benzene	29.8
sec-butylbenzene	6.0

Note 3 = The following compounds were detected above the laboratory reporting limits in this sample:

MtBE	5.2
DIPE	20.0

Appendix D - continued

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
12/30/99	MW-1	**5,000**	**1,800***	**83**	**33**	**33**	**31**	ND
	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	**2,800**	**1,200***	**400**	**16**	**28**	**19**	ND
	PZ-1	ND	ND	ND	ND	ND	ND	ND
03/28/00	MW-1	**2,400**	**480***	**28**	**5.9**	**18**	**7.9**	ND
	MW-2	ND	ND	ND	ND	ND	ND	ND
	MW-3	**5,700**	**600***	**750**	**13**	**37**	ND	ND
	PZ-1	ND	ND	ND	ND	ND	ND	ND
09/07/00	MW-1	**1,500**	**600***	**41**	**3.5**	**17**	**13**	<25
	MW-2	ND	ND	ND	ND	ND	ND	<25
	MW-3	**1,200**	**650***	**240**	**4.0**	**22**	**13**	**2.5****
	PZ-1	ND	ND	ND	ND	ND	ND	<25
11/15/00	MW-1	**1,100**	**1,100**	**35**	**6.0**	**22**	**13**	<50
	MW-2	ND	ND	ND	ND	ND	ND	<50
	MW-3	**1,500**	**220**	**230**	ND	**5.8**	ND	<50
	PZ-1	ND	ND	ND	ND	ND	ND	<50
03/28/01	MW-1	NS	NS	NS	NS	NS	NS	NS
	MW-2	NS	NS	NS	NS	NS	NS	NS
	MW-3	NS	NS	NS	NS	NS	NS	NS
	PZ-1	NS	NS	NS	NS	NS	NS	NS
07/26/01	MW-1	**920**	<50	**24**	**4.7**	**9.1**	**14**	<10
	MW-2	<50	<50	**1.1**	<1.0	**0.60**	<1.0	**2.7**
	MW-3	**1,600**	**ND**	**210**	**12**	**20**	**20**	<25
	PZ-1	<50	<50	**4.8**	<1.0	**1.0**	**1.9**	<1.0

Appendix D - continued

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MTBE
		µg/L						
10/16/01	MW-1	**850**	**68***	**3.8**	<1.0	**2.6**	**1.6**	<1.0
	MW-2	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0
	MW-3	**570**	**120***	**67**	<1.0	**3.1**	<1.0	<1.0***
	PZ-1	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0

* = Higher boiling point components of gasoline are present
** = In addition, fuel oxygenates were detected.
*** = 1,2-dichloroethane (EDC) was also detected at 8.8 ug/L
ND = Not detected at or above laboratory detection limits (See laboratory report for detection limits).
NS = Not Sampled

Sample Date	Monitoring Well ID	Total Alkalinity	Free CO_2*	NO_3^{-1}	SO_4^{-2}	Mn	Fe^{+2}	ORP
		mg $CaCO_3$/L	mg CO_2/L	mg/L				mVolts
10/16/01	MW-1	**410**	**210**	<0.5	**3.1**	**3.2**	**19**	**140**
	MW-2	**110**	**170**	**11**	**29**	**0.031**	<0.5	**270**
	MW-3	**530**	**270**	<0.5	**2.7**	**4.3**	**18**	**170**
	PZ-1	**270**	**54**	**2.1**	**63**	0.090	<0.5	**260**

Note = See attached laboratory report for pH readings, and Free CO_2 as calculated by the laboratory.

Appendix D - continued

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
01/14/02	MW-1	**4,600**	**540***	**50**	**9.1**	**13**	<5.0	<5.0
	MW-2	<50	<50	<0.3	<0.3	<0.5	<0.5	2.7
	MW-3	**1,000**	**290***	**250**	4.0	18	<5.0	<5.0
	PZ-1	NS	NS	NS	NS	NS	NS	NS
04/22/02	MW-1	**1,800**	**290***	**29**	**4.9**	**7.4**	**6.6**	<0.5
	MW-2	<50	<50	**0.38**	**1.9**	**0.82**	**2.8**	**2.6**
	MW-3	**2,400**	**240***	**300**	**1.6**	**3.6**	**4.3**	**1.2**
	PZ-1	<50	<50	**0.47**	**1.6**	**0.73**	**2.4**	<0.5
07/23/02	MW-1	**880**	**130***	**23**	**2.4**	**6.2**	**1.4**	<0.50
	MW-2	<50	<50	**0.41**	<0.30	<0.50	<0.50	**2.0**
	MW-3	**2,400**	**240***	**430**	**3.3**	**13**	**3.5**	<0.50
	PZ-1	<50	<50	**0.75**	<0.30	<0.50	<0.50	<0.50
12/04/02	MW-1	**1,100**	**170**	**16**	**1.1**	**4.0**	**1.2**	<0.50***
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**1.6**
	MW-3	**950**	**81****	**69**	**0.94**	**2.5**	**1.2**	<0.50***
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

* = Higher boiling point components of gasoline are present.
** = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
*** = See laboratory report for additional analytes detected.
< = Indicates the laboratory test method detection limit.
NS = Not Sampled

Appendix D - continued

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
03/26/03	MW-1	**3,900**	**520***	**53**	**7.0**	**14**	<5.0***	<5.0***
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**1.3**
	MW-3	**2,600**	**200***	**290**	<3.0	**9.3**	<5.0***	<5.0***
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
09/10/03	MW-1	**2,100**	**140**	**30**	<30	<50	<50	<50
	MW-2	<50	**190******	<0.30	<0.30	<0.50	<0.50	**1.0**
	MW-3	**1,600**	<50	**170**	<30	<50	<50	<50
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	<0.50
3/04/04	MW-1	**5,200**	**660***	**73**	<6.0	**32**	<10	<10
3/03/04	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**1.9**
3/04/04	MW-3	**3,000**	**560***	**460**	<30	<50	<50	<50
3/03/04	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	**230**	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
3/04/04	PZ-1	<50	**110**	<0.50	<0.30	<0.50	<0.50	<0.50

* = Higher boiling point components of gasoline are present.
** = See laboratory report for additional analytes detected.
*** = Elevated laboratory detection limit due to matrix interference.
**** = The sample was apparently mis-labeled and results appear to be consistent with historical results from MW-3
< = Indicates the laboratory test method detection limit.

Appendix D - continued

Sample Date	Monitoring Well ID	TPH-g	TPH-d	B	T	E	X	MtBE
		µg/L						
7/02/04	MW-1	**3,600**	**390***	**56**	<15	<25	<25	<25
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**0.95**
	MW-3	**3,700**	**340***	**440**	<15	<25	<25	<25
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	<0.50

< = Less than the indicates laboratory test method detection limit.
* = Higher boiling point constituents of gasoline are present.

Sample Date	Well ID	Total Alkalinity as $CaCO_3$	Dissolved Oxygen (DO)	Nitrate (NO_3)	Sulfate (SO_4)
		mg/L			
7/02/04	MW-1	**380**	**0.46**	<1.0	<0.50
	MW-2	NA	**0.73**	NA	NA
	MW-3	**490**	**0.62**	<1.0	**1.5**
	MW-4	NA	**1.93**	NA	NA
	MW-5	**70**	**0.59**	<1.0	**12**
	MW-6	**71**	**3.45**	<1.0	**13**
	PZ-1	**200**	**0.45**	**1.2**	**46**

< = Less than the indicated laboratory test method detection limit.
NA = Not analyzed.

Appendix D - continued

Sample Date	Monitoring Well ID	TPH-g	TPH-d	B	T	E	X	MtBE
		µg/L						
03/15/05	MW-1	**4,100**	**780***	**43**	**11**	**15**	**7.1**	<2.5
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**0.71**
	MW-3**	**2,200**	**460***	**270**	<6.0	<10	<10	<10
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	PZ-1	<50	<50	<0.50	<0.30	<0.50	<0.50	<0.50

< = Less than the indicates laboratory test method detection limit.
* = Results in the diesel organics range are primarily due to overlap from a gasoline range product.
** = Reporting Limits have been raised due to sample foaming.

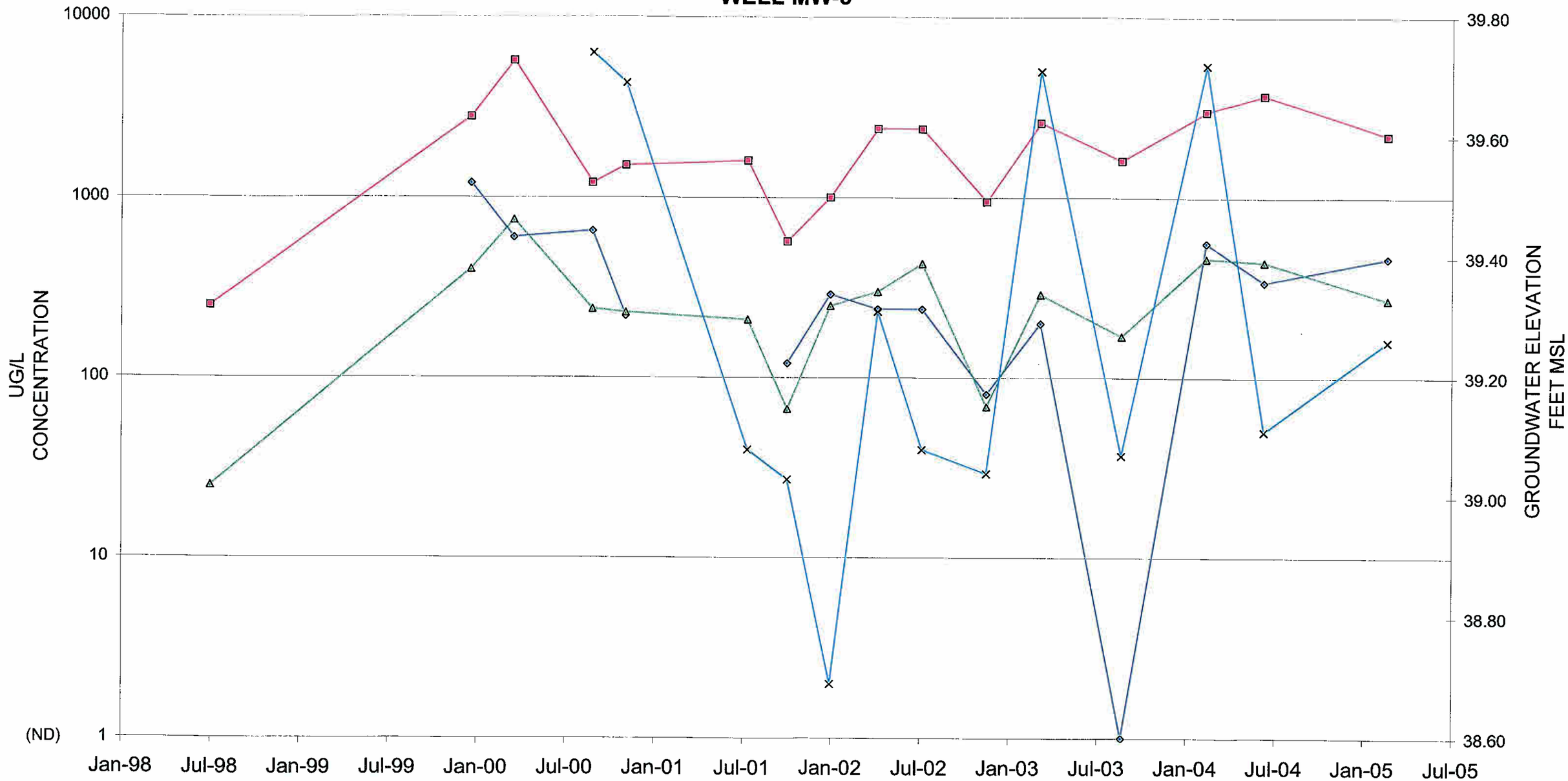
APPENDIX E

TIME vs. CONCENTRATION GRAPH
FERNDALE MOTORS
638 MAIN ST FERNDALE
TTC Job No. 3046.01
WELL MW-1

ND=LESS THAN REPORTED DETECTION

NOTE: RESULTS IN THE DIESEL ORGANICS RANGE ARE PRIMARILY DUE TO OVERLAP FROM A GASOLINE RANGE PRODUCT (SEE LABORATORTY REPORTS).

TIME vs. CONCENTRATION GRAPH
FERNDALE MOTORS
638 MAIN ST FERNDALE
TTC Job No. 3046.01
WELL MW-3



ND=LESS THAN REPORTED DETECTION

NOTE: RESULTS IN THE DIESEL ORGANICS RANGE ARE PRIMARILY DUE TO OVERLAP FROM A GASOLINE RANGE PRODUCT (SEE LABORATORTY REPORTS).

DISTRIBUTION LIST

1st Quarter 2005 Monitoring Report

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Ferndale, California

April 12, 2005
Job No. 3046.01

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